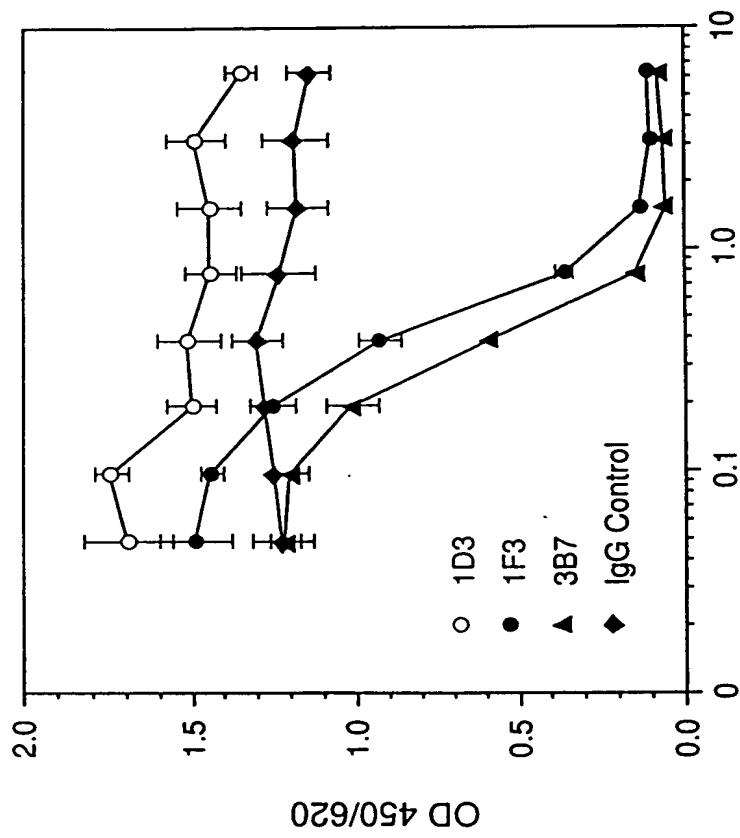


Antibody Concentration (nM)



**Figure 1**

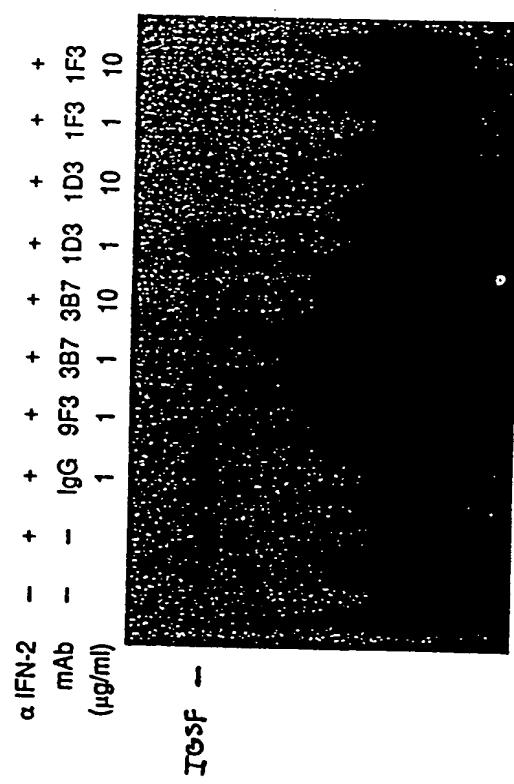


Figure 2

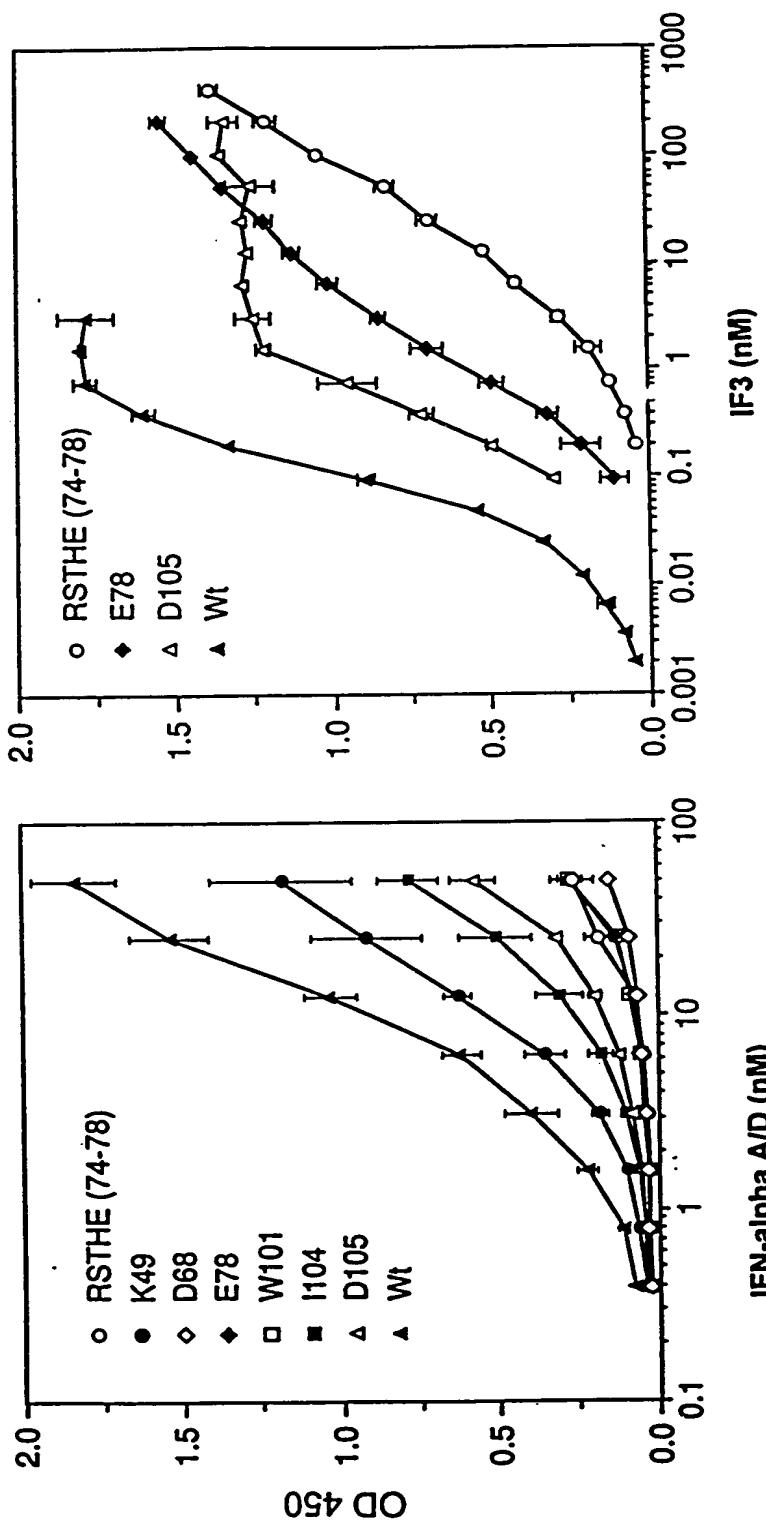


Figure 3A

IFN- $\alpha$ /D (nM)

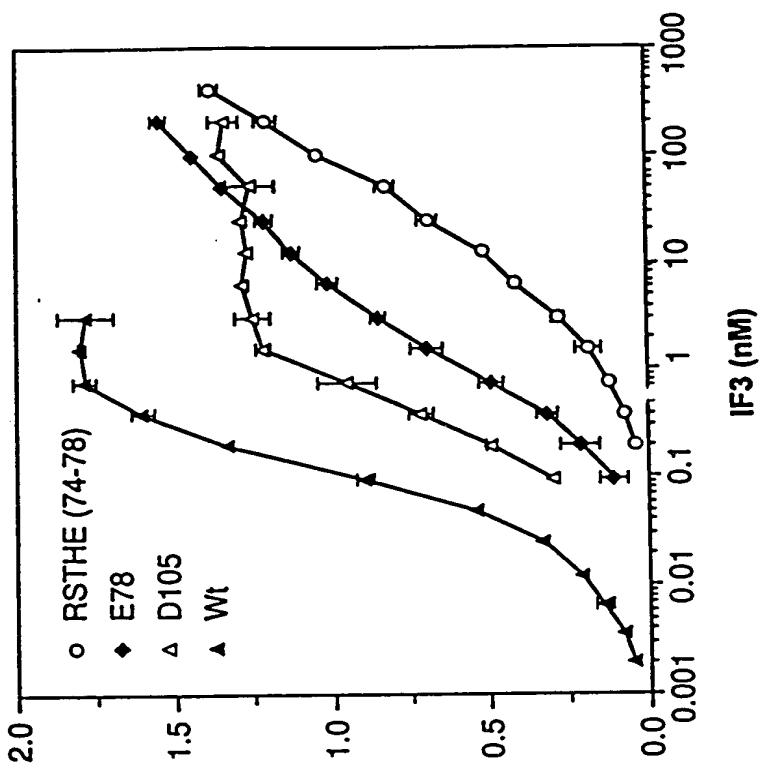
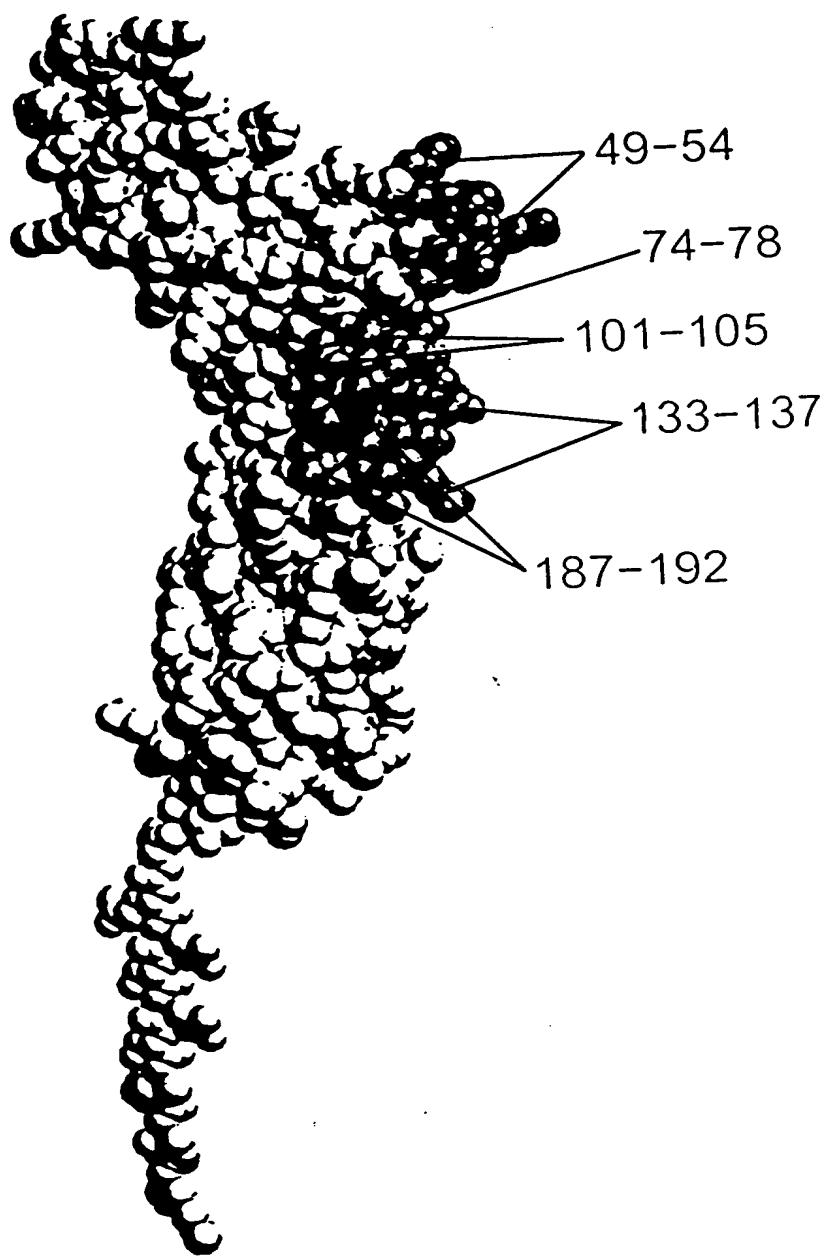


Figure 3B

IFN-3 (nM)



**Figure 4**

Figure 5A

901 GAGGTCAAGT TCAACTGGTA CGTGGACCGG GTCAGGGTGC ATAATGCCA GACAAAGGCC CGGGAGGAGC AGTACAACAG CACGTACCGA GTGGTCAGGG  
 CTCAGGTCAGT AGTGGACCAT GCACCTGGC CTCCTCCACG TATTCGGGT CTGTTTCGGC GCCTCTCG TCATGTTGC GTGATGGCT CACCAAGTCGC  
 268 GluValLysPhe AsparTyrPhe ValGluValH IleAsnAlaIle 8thrLysPhe ArgGluLysGlu IleTrpAsnSe rThrTrpArg ValValSerVal  
 1001 TCCCTCACCGT CTCGACCCAG GACTGCTGA ATGCAAGGA GTACAAGTC AAGGTCTCCA ACAAAAGCCCT CCCAGCCCCC ATCGAACAA CCATCTCCA  
 AGGAGTCGA GGACGTGGTC CTGACCGTACT TACGCTCTCT CTCAGGAGGT TGTCAGGGGG TAGTCTCTT GTAGTAGGGTT  
 302 LeuThrVal IleLeuLysGln AspPheLeu SnglyLysGln 8thrLysCys LysValSerLys ValLeuLysGln AspProLysAlaLysLys  
 1101 AGCCAAAGGG CAGCCCGAG AACCAAGGT GTACACCCCTG CCCCCATCCC GGGAAAGGAGAT GACCAAGAAC CAGGTAGGCC TGAACCTGCC  
 TCGGTTCCC CTGCGGGCTC TTGGTCTCA CTCGGCACG CGGGGTAGGG CCCTTCCTCA CTGGTCCTG GTCAGTCGG ACTGACGGA CCAAGTTCCG  
 335 AlaLysGly GlnValSerLys ValProLysGln IleProSerLys ValProSerLys ValGluLysGlu IleGluLysGlu IleValSerLys  
 1201 TTCTATCCCA GCAACATCCG CTCGAGCTG GAGGCAATG GCAACACTAC AAGACACGC CTCACCGTGC GGACTCCGAC GGCTCCTCT  
 AGATAGGGT CTCGTTAGCG GCAACCTTAC CTCGCTTAC CTCGTTGATG TTCTGTCGG GAGGGCACGA CCTGGGGCTG CGGAGGAGA  
 368 PheTyrPheGln AspPheLeuIle ValGluLysGln IleGluLysGln IleGluLysGln IleGluLysGln IleGluLysGln IleGluLysGln  
 1301 TCCCTACAG CAGGCTTACG GTCGGACGA GCAAGTCGGCA GCAAGGGAAC GTCTTCTCAT GTCTCGGTGT GCTTCGGTGT  
 AGGAGATGTC GTCGAGCTG CACCTGTTCT CGTCACCGT CGTCACCGT CGTCACCGT CGTCACCGT CGTCACCGT CGTCACCGT  
 402 LeuTyrSe LysLeuThrVal AspLysPhe LysGluLysGln IleGluLysGln ValPheSerLys ValSerValMet ThrGluLysLys  
 1401 GAAAGCCCTC TCCCTCTCTC CGGGTAAATG AGTGGACCGG CCCTAGAGTC GACCTGGAGA AGCTTGAAC CGAGGGCCG  
 CTCCTCGAG ACCGGAGAG GCGGAGCTGC CGGGAGCTGC CTCGAGCTGC TCGAGCTGC TCGAGCTGC GCTCCCCGG  
 435 LysSerLeu SerLeuSerPhe RodLysLysPhe \* (SEQ ID NO. 26)

sv40 early

poly A

1501 TCCAGCTTAT ATCTGGTACA AATAAGCAA TAGTCATCAA AATTTCACAA ATAAGGCTT TTTCACCTG CATTCTGTT GTGGTTGTC CAAGCTGTC  
 ACCTGCTATA TTACCAATG TTATTCGTT ATCTGAGTT TTAAAGTTT TATTGCTTA AAAAAGTGC GAAAGTCGA CACCAAGTCGA CTTGTTGAG  
 1601 ATCTATCTT ATCATGCTG GATCCTACG GAAATTACG CTCGGCCGAC CATGGCCCTGA AATAACCTT GAAAGGAGA CTGGTTAGG TACCTCTGA  
 TTACATGAGA TAGTACAGAC CTCAGCTGCC CTTAAATTAG CGGGCTGCTG GTACCGGACT TTATGGAGA CTTTCCTCTT GAAACCAATC ATGGGAGACT  
 4701 CAGGAAACAG ACCGGTGTG GAATGTTGT CAGTTAGGT GTGGAAAGTC CCCAGGGCTCC CCAGCAGGGCA GAAAGTACGCA AAGCATGGCT CTCAAATTGTT  
 CCGCTCTCTC TCTGTCACAC CTTACACACA GTCATCCCA CACCTTCTG GGGTCCGGG GTGTCCTGG CTCTCATCTG TTCTGACGTA GAGTTATCA  
 1801 CAGGAAACAG CTCGGAAAG TCCCAGGGCT CGGGAGCTGC CTCAGGTTG CAGAAGTGTG CAAAGGATGC ATCTCAATTA GTCAGCAAC  
 GTCCTGGCTC GTCCTGGCTC AGGGTCCGA GGGGTCTCC GTCCTGCTCC GTTCCTCATAC GTTCGTTAGG TAGGTTAAAT CAGTCGTTGG TATCAGGGGG  
 GGGATTGAGG

Figur 5B

1901 CCCCTTCCCG CCCCTTAACTC CGCCCAAGTTC CGCCCATTT CTGCTTCCCG GCTGACTAAT TTTTTTATT TATCAGAGG CGAGGGCCGC CTGCGCCCTCT  
CCGGTAGGGC GGGGATTGAG GCGGTCAG GCGGTAAGA GCGGTTAGA GCGGGGGTAC CAACTGATAA AAAAATAAA ATAGTCTCC GCGTCGGGG GAGGCCGAGA

2001 GAGCTATTC AGAGTAGTGT AGAGGGCTT TTGGAGGCC TAGGCTTTG CAAAAGCTG TTAAACGCTT GCGCTGGCC GTGTTTAC AACGTGTTGA  
CTGATAAGG TCTCATCAC TCTCCGAAA AACCTCCGG ATCCGAAAAAC GTTTTCGAC AATTGCGAA CGGTGACCCG CAGCAAATG TTGAGGACT

2101 CTGGGAAAC CTCGGCTTA CCCACTAA TCGCTTGCAG GACATCCC CTCIGCCAG CTGGGCTTAAT AGCGAAGAGG CCCGCACCGA TCGCCCTTC  
GAGCCCTTGTG GAGGGCAAT GGGTGAATT AGCGAACGT CGTGAQGGG GAAAGGGTTC GACCGATAA TGCGTCTCC GGGCGTGGCT AGGGGAAAGG

2201 CAAAGTTCG CTAGGCTTA TGGGATAATGG CGCTGTATGC GGTTATTTCT CCTTACGAT CTGTGGATA TTTCACACCG CTTACGCTAA AGCAACCATAA  
GTTGTCACG CTGGGACTT ACCGCTTACG GCAGGAACTGG CCAATAAAGA GGAATGCGTA GACACGCCAT AAATGTGGC GTATGCGATT TGTTGGTAT

2301 GTACGCCCG TGTAGCGGG CATTAAAGCG GGGGGTGTG GTGGTTACGC CGCTACATT GCCAGGCCCG TCGCCCGCC TCCTTCGCT  
CATGGCGGG ACATGGCGC GTAATTGCGG CGCCCACAC CACCAATGCG CGTGCACGTG CGATGTGAA CGGTGCGGG ATCGCGGGG AGGAAAGCGA

2401 TTCTTCCCT CCTGGCTCGC CACGTTGCC GGCTTCCCG GTCAGGCTCT AAATGGGGG CTCCCTTAG GGTCGGATT TAGTGCCTTA CGGCACCTCG  
AGGAGGGAA GGAAAGGGG CGTGAAGCGG CGAAAGGGG CAGTCGAGA TTAGCCCCC GAGGAAATC CCAAGGCTAA ATCACGAAT GCGTGGAGC

2501 ACCCCAAAAA ACTGGTATTG GTGTGATGGT CACGTTGCGG GCAATCGCCC TGATAGACGG TTTTCGCCC TTGGACGTTG GAGTCCACGT TCTTAAATAG  
TGGGGTTT TGAATTAAC CCACTACCA GTGCTACCC CGTAGGGGG ACTATCTGCC AAAAGGGG AAATGCAAC CTCAAGGCTCA AGRAATTATC

2601 TGGACTCTG TTCCAAACT GAACAACACT CAACCTATC TGGGCTATT CTTTGATT ATAAGGGATT TTGCGGATT CGGCCTATTG GTTAAAGGAT  
ACTGAGAAC AAGGTTGAC TTGGTGTGA GTTGGGATAG AGCCCGATAA GAAACTAA TATTCCCTAA AACGGCTAA GCGGGATAAC CAATTTTTA

2701 GAGCTGATT AACAAAAATT TAACGCGATT TTAAACAAA TATTAACGTT TACAATTAA TGTTGCACTC TCAAGTACAT CTGCTCTGAT GCGCATAGT  
CTGACTAAA TTGGTTAA ATTGCGCTTA AAATGTTT ATTATGGCAA ATGTTAAAT ACCACGTGAG AGTCATGTTA GCGGAGACTA CGGGTATCA

2801 TAAGCCAACT CGGCTATCGC TACGTGACTG GGTCTATGGCT GCGCCCGAC ACCGGCCAC GCGCCCTGAC GGCGTGTCT GCTCCCGGCA  
ATTCGGTTGA GGGGATAGGG ATGCACTGAC CGAGTACCGA CGGGGGCTG TGGGGGTTG CGGGGACTG CGCGAACAGA CGAGGGCGT

2901 TCGCTTACA GACAAGGCTGT GACCGCTCTCC GGGAGCTGCA TTGGTCAGAG GTTTTCACCG TCATACCGA AACGGCGAG GCAAGTATTCT TGAGGACGA  
AGGCAATGT CTGTCACCA CTGGCAGGG CCCTGACGT ACACGCTCTC CAAAGTGGC AGTAGGGCT TTGCGCGCTC CGTCATGAGA ACTTCCTGCT

3001 AGGCCCTCGT GATAAGCCCA TTTTATAGG TTAAATGCTAT GATAATAAG GTTCTCTAGA CGTCAGGTS3 CACTTTCGG GAAAATGTC GCGGAACCCC  
TCGGGAGCA CTATGCGGT AAAAATATCC AATTACAGTA CTATTATTAC GCAAGAATCT GCAGTCACCC GTGAAXAGCC CCTTACAGG

Figure 5C



4401 CACTCAAGA ACTCTGTAGC ACCGCCCTACA TACCTGGCTC TCTTAATCCT GTTACCAAGG GCTGCCCTCA GTGGGATAA GTCTGGTCCT ACGGGGTGG  
GTGAGGTTCT TGTGAGCTG TGGCGATCT ATGGGCGAG ACCATTAGGA CTTGACAGAA CACGGT CTTGACAGAA TGCCCCAAC  
4501 ACTCAAGACG ATAGTTACCG GATAAGGCC AGCGGTGGG CTTAACGGG CTTGCGTCAC CGACGCGGT CTTGAGCGA AGCACCTACA CGAACCTGAG  
TGACTTGCG TATGATGGC TATTCCCGG TCGCAAGCCG QACTTGCCCC GAGCTGGCT GTGCGGGT GAACCTGCT TGTGGATGT GGCTTGACTC  
4601 ATACCTACAG CTTGAGCTT GAGAAAGGCC CACGCTTCCC GAGGGAGAA AGGGGAGAG GTATCCGGTA AGCGGAGGG TCAGAACAGG AGAGGCCAG  
TATGGATGTC GCACTGTTA CTCTTCGGG GTGCGAAGG CTTCCCTCTC TCCGCCCTG CTTAGGCTT TCGCGTCCC AGCGTGTCC TCTCGCGTGC  
4701 AGGGAGCTTC CAGGGGAAA CGCCCTGGTAT CTTTATAGTC CTGCGGGT TGACTTGAGC GTGATTTTT GTGATGCTG TCAAGGGGC  
TCCCTCGAAG GTCGCCCTT GCGAACATA GAAATATCG GAGGGCTCAA AGCGGTGAG ACTGAGACTG CAGCTAAAAA CACTACAGG AGTCCCCCG  
4801 GGAGCTTAT GAAAGGCC AGCAACCGG CCTTTTACG GTTCTGGCC TTGTTGCGC CTTTGTCTA CAGTTCTT CCTGCGTAT CCTGCGTAT CCTGCGTATC  
CTCTGGATAC CTTTTGGGG TCGTGGGG GAAAGATGC CAGGACGG AAAACGACCG GAAACGAGT GTACAAGAAA GGACGAAATA GGGAACGAAAG  
4901 TGTGATTAAC CTATTACCG CCTTGTAGTA AGCTTATACC GCTTGGCCGA GCGGACACCG CGAGGCGGC GAGTCGTA CGGAGGAAGC GGAGAGGCC  
AGCCTTATTC GCTTATTCG GGAATCTAC TGCACTTGG CGCGCTGGT GCTCGCGT GCAGTCTACT CGCTCCCTG CCTTCCTGCG  
5001 CTAATACGA AACGCCCTT CCCCCCGGT TGCGGAGTTC ATTATCCAG TGCCGAGAC AGGTTCGGC ACTGGAAAGC GGGAGTGA CGCAAGGCAA  
GCTTATCGT TTGGCGAGA GGGCGCGCA ACCGCTAAAG TAACTAGTC GACCGTGTG TCCAAAGGGC TGCCTTGC CGCGTCACTC GGTTGCGTT  
5101 TTATGTGAG TTACCTCTCT CATTAGCAG CCCAGGCTT ACRTTTATG CTTCCGGCTC GTATGTTG TGAAATGTTG AGGGATAAC AATTACAC  
ATTACACTC ATGGAGTGA GTAAATCGAA TGTTAAATC GAAAGGGCGAG CATAACAC ACCTAAACAC TCGCTCTATG TAAAGTGTG  
5201 AGGAACAGC TATGACCTG ATTACGTTT ATTCTCTTA TTACGCTGA GCGGGCTGTA ACTAAACT GATCATATA TATCATATGT TAATGCCCA GTAAATCAAGT  
TCTTGTCTG ATACTGGTAC TAATGCTTA TTACGCTGA GCGGGCTGTA ACTAAACT GATCATATA TATCATATGT TAATGCCCA GTAAATCAAGT  
5301 TAACTCCATAT ATGGAGTTC GCGTACATA ACTACGGTA AATGGCCCGC CTGGCTGACC GCCCCACGAC CCCGCCCAT TGACGTCAAT ATGACGTAT  
ATGGGTATA TACCTCAAG CGCAATTTAT TGATGCCAT TTACGGGG GACCGACTGG CGGGTTGCTG GGGGGGGTA ACTGCACTTA TTACTGCTA  
5401 GTCCCATAG TAACGCCAT AGGGACTTC CATTGAGTC ATGGGGTGA GTATTACGG TAAACTACGG ACATGAGTG TATCATATGC  
CAGGGTATC ATTGCGGTTA TCCCTGAAAG GTAACTGCG TTACCCACCT CATAAAATGCC ATTGACGGG TGAACCGG TGATGTCAC ATAGTATACG  
5501 CAACTACGCC CCCTATTGAC GTCAATACG GTAACTGCGT TATGCCCGAT ACATGACCTT ATGGGACTT CCTACTGGC AGTACATCA  
GTTCAATGCCG GGGATAACTG CAGTACTGC CATTACCGG GCGGACCGTA ATACGGGTCA TGTACTGGAA TACCGGTAA GGATGACCG TGTGTGAGT

Figure 5E

Figure 5F

5601 CGTATTAGTC ATCGCTTATA CCATGGTAT GCGGTTGG CACTACATCA ATGGGGGTG ATAGCGTTT GACTACGGG GATTTCCAAG TCTCCACCCC  
GCATTAATCAG TACCGTATAT GTTACCACTA CGCCAAACC GTCTGTAGT TACCGCACC TATCGCAAA CTGAGTGCCTC CTAAGGTTG AGAGGTGGGG  
5701 ATTCACGCA ATGGGAGTT GTTGGGAC CAAATCAAC GGAACTTCC AAAATGCTG AACAACCTCG CCCCTATTGAC GCAAATGGGC GTAGGGCTG  
TAACCTCGAT TACCTCTAA CAAACCTG GTTGTAGT CCTGTAAGG TTTCACAGA TGTGTAGGC GGGGTAACTG CTTTACCG CTAATCGCAC  
5801 TACGGTGGG GGTCTATATA AGGAGAGTC GTTGTGAA CCTGTGAGT GCCTGAGTC GCCTGGGAGC GCCATCGAC CTGTGTGAC CTCCTAGAA GACACCCGGGA  
ATGCCACCTT CCAGATATA TGTTCTCGA CAAATCACTT GCGAGTCTAG CGGACCTCTG CGGTAGTGC GACAAACTG GAGGTATCTT CTGTGGCCCT  
5901 CGGATCCGGC CTCCGGGGCC GGGAAACGGG CATTGAAAGC CGGATTCCCC GTGCCAAGAG TGACGGTAAGT ACCGGCTATA GAGGTCTATG GCCCACCCCC  
GGCTAGGTCTG GGGGGCGG CCGCTGGCAG GTAACTTGC GCCTTAAGGGG CACGGTTCTC ACTGCTATCA TGGGGATAT CTGAGATATC GGGGTGGGG  
6001 TGGCTCGT AGAACGGGGC TACAATTAAT ACATAACCTT ATSTATATA CACATAGAT TTAGGGACA CTAGAAATA ACATCCACFT TGCCTTTC  
BP6 promoter AACCGAGCAA TCTTGCGCC ATGTTAATTA TGTATGGAA TACATAGTAT GTGTATGCTA AATCCACGT GATACCTAT TGTAGGTGAA ACGGAAAGG  
6101 TCCACAGGTG TCCACTCCA GTTCCAACTG CAGGCCATGG CGCCCATCGA TT (SEQ ID NO. 25)  
AGGTGTCAC AGCTGAGGGT CCAGGTGTCAC GTCCGGTACCC GCGGGTAGCT AA cloning linker